Simplification Maths Questions for SSC CGL - Practice Set of 10 Questions

Preparing for the Quantitative Aptitude section of the SSC CGL exam can be challenging, but with the right practice and guidance, you can excel. In this blog, we've compiled 10 well-chosen Simplification Maths Questions for SSC CGL designed to strengthen your problem-solving skills. Each question comes with detailed solutions and an answer key to help you grasp key concepts and techniques. Additionally, you'll find book recommendations and expert tips to further refine your preparation.

By tackling these questions, you'll familiarize yourself with the types of Simplification or Approximation problems commonly seen in the SSC CGL exam, enhancing your understanding. At Dhronas, we emphasize the importance of a solid foundation, and these questions will help you build one. Whether you're a first-time aspirant or seeking to boost your score, this resource is a valuable tool for improving your strategy, tracking progress, and preparing confidently for the exam.

Simplification Maths Questions for SSC CGL

We've put together 10 essential Simplification Maths questions for SSC CGL to help you practice and refine your skills. Working through these important questions will enhance your knowledge and better prepare you for the exam. Good luck!

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Question:1 Directions: Solve the given expression.
325 + 276 ÷ [150 - {9 × 9 + (83 - 4 × 15)}]
1. 332
2. 333
3. 334
4. 331

Question:2 Simplify -
42% of 568 + 58% of 360 - 20% of x = 270
1. 886.8
2. 852.7
3. 863.5
4. 890.7

Question:3 What will come in the place of question mark '?'
$48 \times 2\frac{5}{8} + 7 \div 8 - \frac{3}{8} = ?$
1. $128\frac{7}{8}$
2. $126\frac{1}{2}$
3. $126\frac{5}{8}$
4. $128\frac{3}{8}$

Question:4 What will be the value of $12\frac{2}{3} + 15\frac{7}{9} + 11\frac{5}{8} - \frac{27}{4}$?
1. 27.86
2. 29.45
3. 34.56
4. 33.32

Question:5 Simplify
1. 3p – q
2. p+2q
3. 3p+2q
4. 2p + 2q

Question:6 The value of $(\frac{11}{2} \div 2\frac{6}{7}$ of $\frac{53}{5}) \times (6\frac{2}{5} \div 4\frac{1}{2}$ of $\frac{51}{3}) \div (\frac{3}{4} \times 2\frac{2}{3} \div \frac{5}{9}$ of $\frac{11}{5})$ = k, where k lies between:
1. 0.007 and 0.008
2. 0.7 and 0.8
3. 0.0007 and 0.0008
4. 0.07 and 0.08

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Simplification Maths Questions for SSC CGL - Answer Key

Before jumping on to the detailed solutions, please check out your score in this test. And drop your honest scores in the comment section below:

1. (4)	6. (1)
2. (1)	7. (4)
3. (2)	8. (3)
4. (4)	9. (3)
5. (4)	10. (2)

Now, let us provide you with detailed solutions to these Simplification Maths Questions for SSC CGL in the upcoming segment.

Simplification Maths Questions for SSC CGL - Solution Bank

Question:1 The correct answer is **Option 4** i.e. **331**.
325 + 276 ÷ [150 - {9 × 9 + (83 - 4 × 15)}]
325 + 276 ÷ [150 - {9 × 9 + (83 - 60)}]
325 + 276 ÷ [150 - {9 × 9 + (23)}]
325 + 276 ÷ [150 - {81 + 23}]
325 + 276 ÷ [150 - 104]
325 + 276 ÷ [46]
325 + 6 = 331

Question:2 The correct answer is **Option 1** i.e. **886.8**.
42% of 568 + 58% of 360 - 20% of x = 270
⇒ 42(568)/100 + 58(360)/100 - 20(x)/100 = 270
⇒ 238.56 + 208.80 - x/5 = 270
⇒ 270 + x/5 = 447.36
⇒ x/5 = 447.36 - 270
⇒ x = 177.36(5)
⇒ x = 886.8

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Question The correct answer is **option 2** i.e. $126\frac{1}{2}$.

$48 \times 2\frac{5}{8} + 7 \div 8 - \frac{3}{8} = ?$

$\Rightarrow 48 \times 2\frac{5}{8} + 7 \div 8 - \frac{3}{8} = ?$

$\Rightarrow 6 \times 21 + \frac{7}{8} - \frac{3}{8} = ?$

$\Rightarrow 126 + \frac{4}{8}$

$\Rightarrow 126\frac{1}{2}$

Question:4 The correct answer is **Option 4** i.e. **33.32**.

$12\frac{2}{3} + 15\frac{7}{9} + 11\frac{5}{8} - \frac{27}{4}$

$= \frac{38}{3} + \frac{142}{9} + \frac{93}{8} - \frac{27}{4}$

= (912 + 1136 + 837 - 486)/72

= 2399/72

= 33.32

Question:5 The correct answer is option 4 i.e 2p + 2q.

$$3p - [3p - \overline{p+q} - \{3p - (p - \overline{q-p})\}]$$

Given ,

= 3p - [3p - p - q - {3p - (p - q + p)}]

= 3p - [3p - p - q - {3p - (2p - q)}]

= 3p - [3p - p - q - {3p - 2p + q}]

= 3p - [3p - p - q - {p + q}]

= 3p - [3p - p - q - p - q]

= 3p - [p - 2q]

= 2p + 2q

Question:6 The correct answer is **option 1** i.e. **0.007 and 0.008**

$\Rightarrow (1\frac{1}{2} \div 2\frac{6}{7}$ of $\frac{53}{5}) \times (6\frac{2}{5} \div 4\frac{1}{2}$ of $\frac{51}{3}) \div (\frac{3}{4} \times 2\frac{2}{3} \div \frac{5}{9}$ of $\frac{11}{5}) = k$

$\Rightarrow (\frac{4}{3} \div \frac{20}{7}$ of $\frac{28}{5}) \times (\frac{32}{5} \div \frac{9}{2}$ of $\frac{16}{3}) \div (\frac{3}{4} \times \frac{8}{3} \div \frac{5}{9}$ of $\frac{6}{5}) = k$

$\Rightarrow (1/12) \times (4/15) \div (3) =$ **0.0074**

Question:7 The correct answer is **option 4** i.e. **-1585.4**.

We have to find the value of $57\frac{14}{147} + \frac{152}{178} - 1142 \times 203 \div 141 + \frac{14}{359}$.

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By using the BODMAS rule:

$57\frac{14}{147} + \frac{152}{178} - 1142 \times 203 \div 141 + \frac{14}{359}$.

$= \frac{8393}{147} + \frac{152}{178} - 1142 \times 1.44 + \frac{14}{359}$

$= \frac{8393}{147} + \frac{152}{178} - 1644.48 + \frac{14}{359}$

= 59.08 - 1644.48

= -1585.4

Question:8 The correct answer is **option 3** i.e. **-4.7524**

Understanding	Fair Calculation
BODMAS order to use: [ ] - (i) { } - (ii) ( ) - (iii) Then, ÷, ×, + and - Split and solve (i) { 34/25 + 6.8/2 } (ii) ({(7 ÷ 1/2) × (17 ÷ 1/2)} (iii) (13/4 ÷ 65/80)	(i) { 34/25 + 6.8/2 } = 476/100 (ii) {(7 ÷ 1/2) × (17 ÷ 1/2)} = 476 (iii) (13/4 ÷ 65/80) = 4 Now, [(i) - (ii) - (iii)] 0.01 [(476/100) - (476) - (4)]0.01 [(476/100) - (480)]0.01 [- (47524/100] 0.01 = - 4.7524

Question:9 The correct answer is **option 3** i.e. **242**.

Given:

$5^x = 3125$

Calculations:

$\Rightarrow 5^x = 55$

Comparing both sides;

$\Rightarrow x = 5$

Now the value of $3^x - 1 = 35 - 1$

$\Rightarrow 243 - 1 = 242$

Question:10 The correct answer is **option 2** i.e. **0.3**.

Formula: (a3 - b3)/(a2 + ab + b2) = a - b

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Given: $\frac{6.4\times0.08\times0.125}{0.64+0.4+0.25}$
It can be rewritten as:
$\{(0.8)^3 - (0.5)^3\}/\{(0.8)^2 + 0.8 \times 0.5 + (0.5)^2\}$
Using the formula we get: 0.8 - 0.5 = 0.3

Tips to Prepare for SSC CGL Maths Section

Are you eager to enhance your numerical skills for the SSC CGL exam? Prepare to explore a range of tips, tricks, and strategies to elevate your preparation!

- Thoroughly cover the entire syllabus, ensuring no topic is left out.
- Regularly take practice tests to monitor your progress effectively.
- Identify weak areas and focus on them in your study plan.
- Solve

  mock tests

  and previous years' question papers to become familiar with the exam pattern.
- Apply effective time management techniques to cover all topics comprehensively.
- Maintain a consistent daily study routine with dedicated effort.
- Schedule regular revision sessions after each topic to reinforce your understanding.

In conclusion, mastering basic calculation tricks can significantly enhance your performance in the SSC CGL exam. The questions shared in this blog, designed to aid your preparation process, are just a glimpse into the comprehensive strategies available in "

Quant Sir

" by Raja Bhattacharjee. This book offers a wealth of additional tips and practice questions that can further sharpen your skills and boost your confidence. For those looking to dive deeper and refine their quantitative aptitude, "Quant Sir" serves as an invaluable resource, providing clear explanations and effective methods to excel in your preparation. You can even access the

sample

of this book by clicking on the embedded link. Consider exploring this book to take your SSC CGL preparation to the next level.

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